

FIG. 2

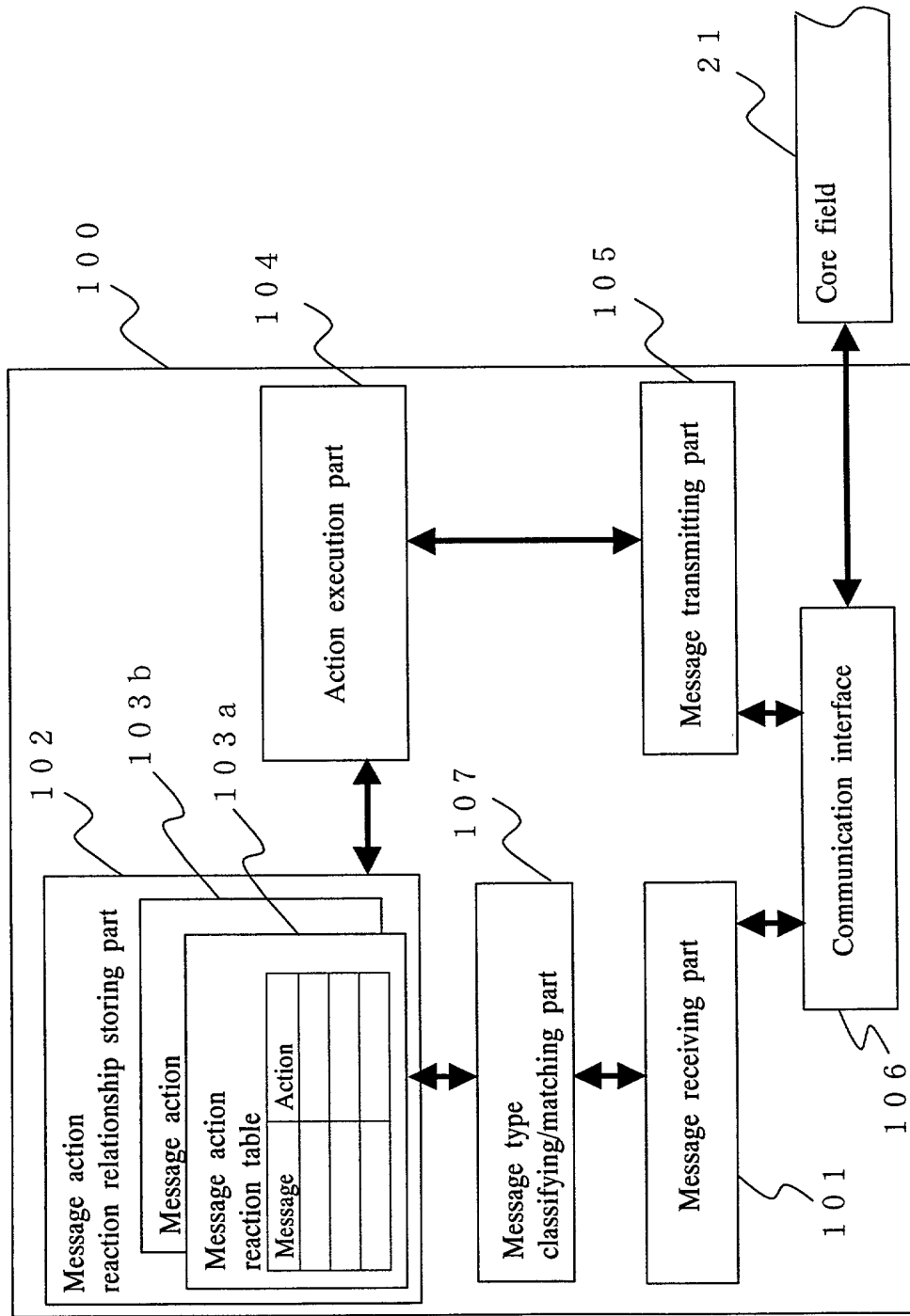


FIG. 3

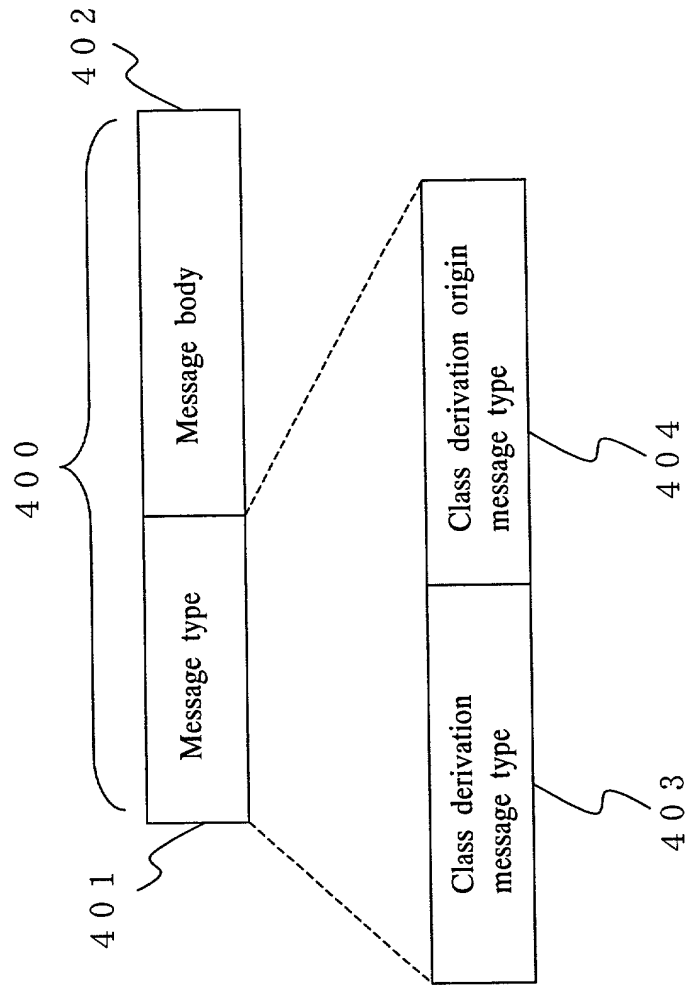


FIG. 4

```

public class msgStringTuple extends msgObjType
{
    public String subject, verb, obj1, obj2;

    public boolean isMatch(msgObjType msg)
    {
        boolean b;
        msgStringTuple camsg;

        if (getClass() != msg.getClass()) return false;

        camsg = (msgStringTuple)msg;

        if (!isMatch(subject, camsg.subject)) return false;
        if (!isMatch(verb, camsg.verb)) return false;
        if (!isMatch(obj1, camsg.obj1)) return false;
        if (!isMatch(obj2, camsg.obj2)) return false;

        return true;
    }

    boolean isMatch(String str1, String str2)
    {
        if (str1 == "*" || str2 == "*" || str1 == str2) return true;

        return false;
    }
}

```

FIG. 5

```

import parser.*;
import match_maker.*;

public class XMLMsg extends msgObjType
{
    public Parser m_pattern;
    public MatchMakerResult res;

    public void SetPattern(String XMLtext)
    {
        m_pattern=new Parser();
        if (!m_pattern.parse(XMLtext)) m_pattern=null;
    }

    public boolean isMatch(msgObjType msg)
    {
        XMLMsg xmsg;
        MatchMaker match;

        if (getClass()!=msg.getClass()) return false;
        xmsg=(XMLMsg)msg;

        match=new MatchMaker();
        res=match.match_make(xmsg.m_pattern, m_pattern);

        if (res.size()==0) return false;
        return true;
    }
}

```

FIG. 6

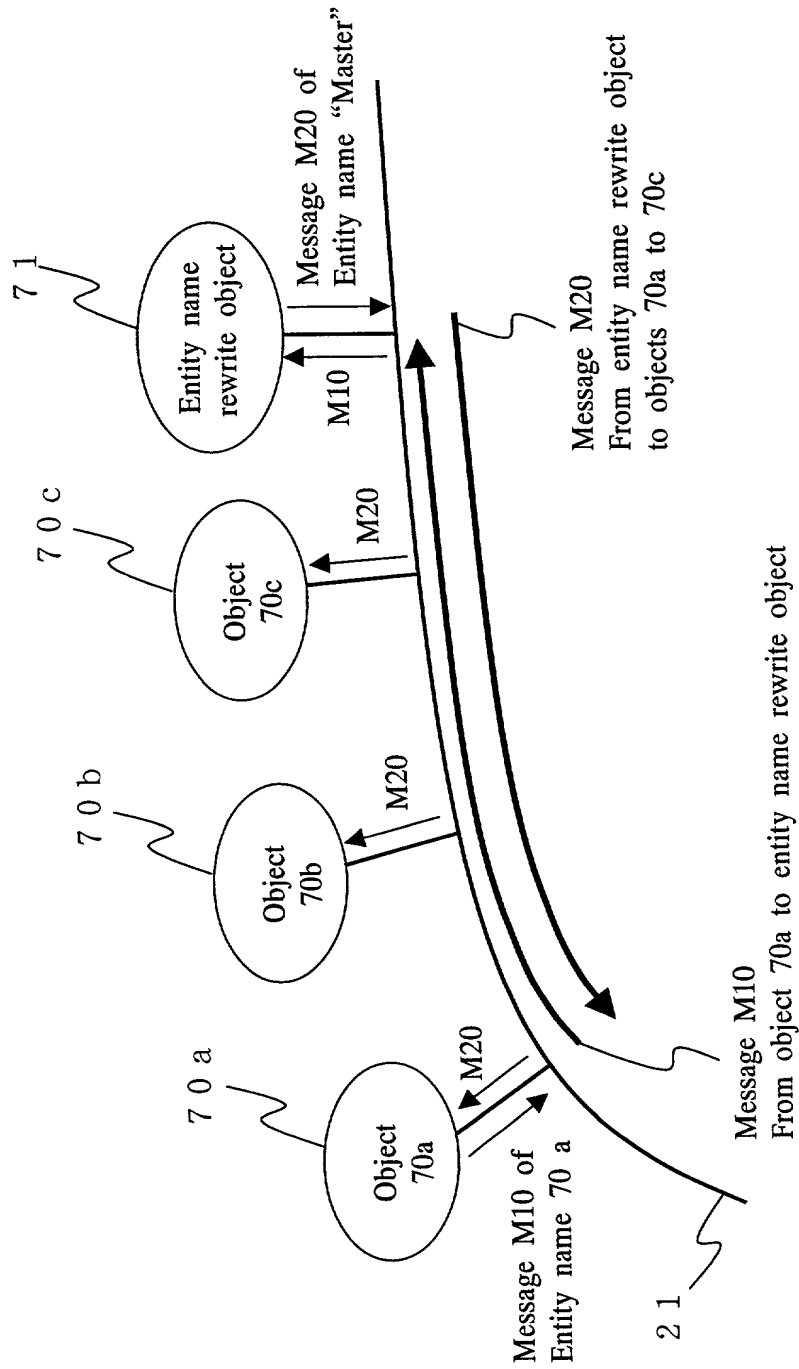


FIG. 7

(a)

S	V	O	O	A c t i o n
Master	MouseMove	X coordinate	Y coordinate	Move

(b)

S	V	O	O	A c t i o n
Master	MouseMove	X coordinate	Y coordinate	Move

(c)

S	V	O	O	A c t i o n
Master	MouseMove	X coordinate	Y coordinate	Move

(d)

S	V	O	O	A c t i o n
*	MouseMove	X coordinate	Y coordinate	MasterOut

(e)

S	V	O	O	
Master	MouseMove	X coordinate	Y coordinate	

FIG. 8



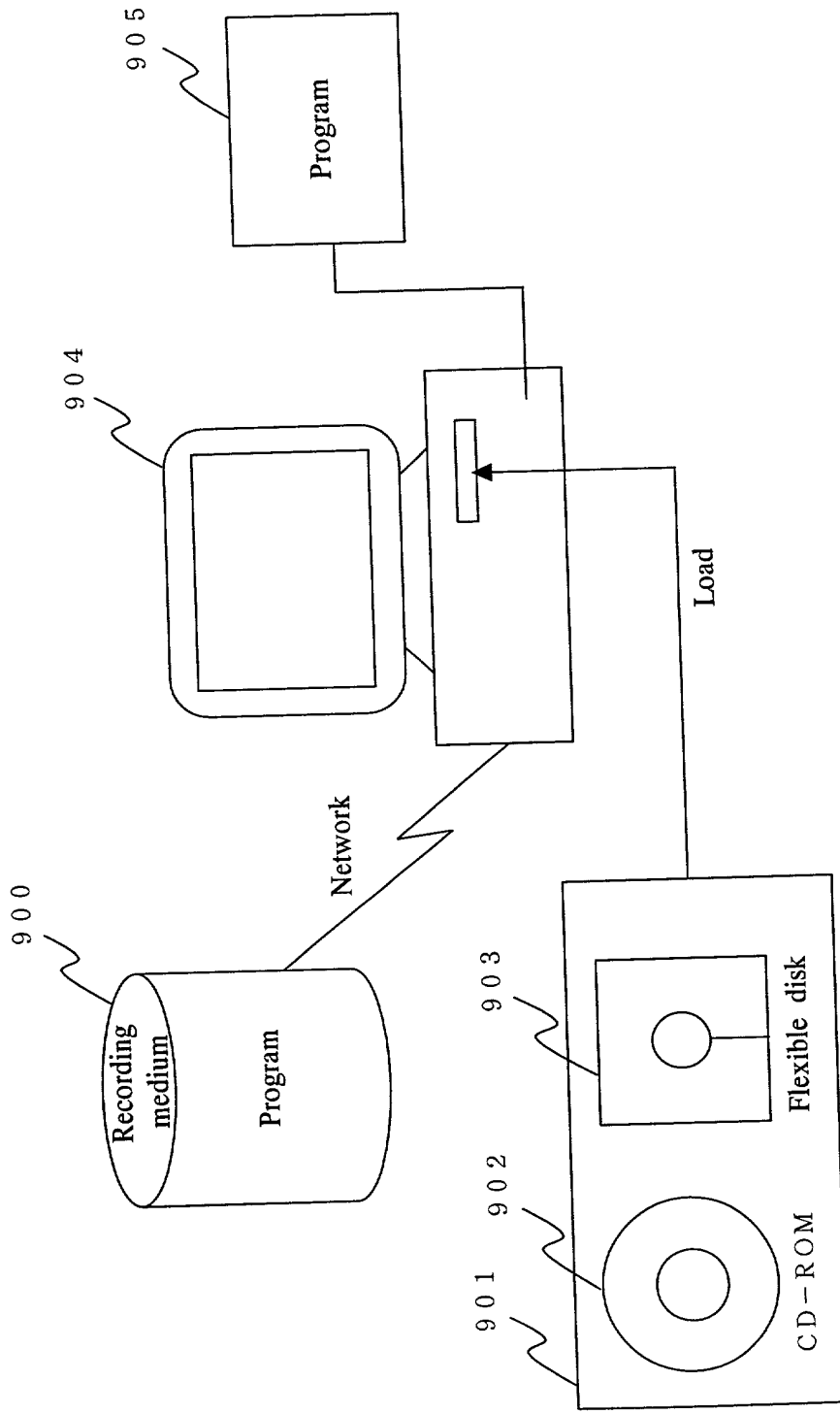


FIG. 9

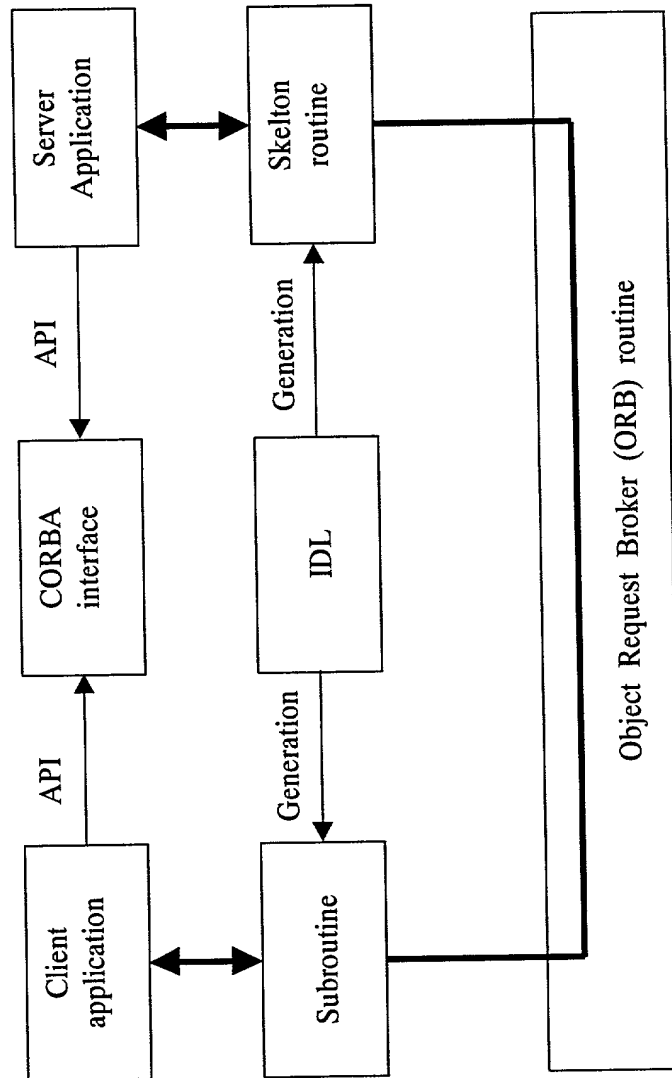


FIG. 10